

CLAIMS

What is claimed is:

1. A display apparatus having a panel displaying a picture, a panel driver enabling the panel to display the picture, and a scaler transferring an input image signal to the panel driver, the display apparatus comprising:

 a key input part generating a color change execution signal for the input image signal by manipulation of a user; and

 a controller modifying a voltage level value of the input image signal and transferring a modified input image signal to the scaler, if the input image signal transferred to the scaler is identical over a predetermined period of time, after receiving the color change execution signal from the key input part.

2. The display apparatus according to claim 1, further comprising:

 a storage storing a white voltage level value and a black voltage level value,

 wherein the controller determines a color reversion value of the input image signal on a basis of the white voltage level value and the black voltage level value stored in the storage, to modify the voltage level value of the input image signal and transfer the modified input image signal to the scaler.

3. A control method of a display apparatus having a panel displaying a picture, a panel driver enabling the panel to display the picture, and a scaler transferring an input image signal to the panel driver, the method comprising:

 generating a color change execution signal from a key input part;

 checking if the input image signal transferred to the scaler over a predetermined period of time is identical; and

 modifying a voltage level for the input image signal if the input image signal transferred to the scaler over the predetermined period of the time is identical.

4. The control method of the display apparatus according to claim 3, further comprising:

 storing a white voltage level and a black voltage level,

wherein modifying the voltage level for the input image signal is achieved by determining a color reversion value of the input image signal on a basis of the white voltage level value and the black voltage level value.

5. A display apparatus, comprising:
a panel displaying an image;
a panel driver receiving an image signal and enabling the panel to display the image;
a scaler receiving the image signal and transferring the image signal to the panel driver;
a key input part sending a color change execution signal according to manipulation by a user; and

a controller, that upon receiving the color change execution signal and determining that the image signal received by the scaler is identical over a predetermined period of time, modifies a voltage level value of the image signal received by the scaler.

6. The display apparatus according to claim 5, further comprising:
a storage storing a first voltage level value and a second voltage level value,
wherein the controller modifies the voltage level value of the image signal received by the scaler according to a determination of a color reversion value of the image signal received by the scaler prior to modification thereof, based on the first voltage level value and the second voltage level value.

7. The display apparatus according to claim 5, further comprising:
a storage storing a first voltage level value and a second voltage level value,
wherein the controller
determines a color reversion value of the image signal received by the scaler based on the first voltage level value and the second voltage level value, and
based on the determined color reversion value, modifies the voltage level value of the image signal received by the scaler.

8. A display apparatus, comprising:
a scaler receiving an image signal;
a key input part sending a color change signal according to manipulation by a user; and

a controller, selectively modifying a voltage level value of the image signal received by the scaler, according to receipt of the color change signal and a determination that the image signal received by the scaler is identical over a predetermined period of time.

9. The display apparatus according to claim 8, further comprising:

a storage storing a first voltage level value and a second voltage level value, wherein the controller

determines a color reversion value of the image signal received by the scaler based on the first voltage level value and the second voltage level value, and

based on the determined color reversion value, modifies the voltage level value of the image signal received by the scaler.

10. A method, comprising:

transferring an image signal to a scaler;

determining whether a key input part sent a color change signal according to manipulation by a user;

if determined that the key input part did not send the color change signal, ending the method;

if determined that the key input part did send the color change signal, determining whether the image signal transferred to the scaler is identical over a predetermined period of time; and

if determined that the image signal transferred to the scaler is identical over the predetermined period of time,

determining a color reversion value of the image signal transferred to the scaler, and

based on the determined color reversion value, modifying a voltage level value of the image signal received by the scaler.

11. The method according to claim 10, further comprising:

storing first and second voltage level values,

wherein the determining the color reversion value of the image signal transferred to the scaler is based on the first and second voltage level values.